PTO/SB08A and 08B (08-03)
Approved for use through 07/31/2006. QMB 008-510
Patient and Trademark Office: U.S. DEPARTIMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO	Complete if Known	
	Application Number	10/053,179
INFORMATION DISCLOSURE	Filing Date	January 15. 2002
STATEMENT BY APPLICANT	First Named Inventor	Kenneth L. Stanwood
(Use as many sheets as necessary)	Group Art Unit	2477
	Examiner Name	Gregory B. Sefcheck
Sheet 1 of 5	Attorney Docket Number	112174-010UTL

			U.S. PATENT DOCU	MENTS	
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (If known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Column, Lines, Where Relevant Passages or Relevant Figures Appear
		5130983	7/1992	Heffner, III	
		5751708	5/1998	Eng et al.	
		6339585	1/2002	Hulyalkar et al.	
		6370112	4/2002	Voelker	
		6925068	8/2005	Stanwood et al.	
		6683866	1/2004	Stanwood et al.	
		4975906	12/1990	Takiyasu et al.	
		5402422	3/1995	Liu et al.	
		5457687	10/1995	Newman	
		5774461	6/1998	Hyden et al.	
		5844906	12/1998	Khelghatti et al.	
		5859848	1/1999	Miura et al.	
		5946313	8/1999	Allan et al.	
		6188680	2/2001	Ohki	
		7583623	9/2009	Zimmerman et al.	
		5404374	4/1995	Mullins et al.	
		6469991	10/2002	Chuah	
		6452927	9/2002	Rich	
		6201811	3/2001	Larsson et al.	
		5970062	10/1999	Bauchot	
		6189041	2/2001	Cox et al.	
		6147989	11/2000	Esaki et al.	
		6940823	9/2005	Park et al.	
		5684791	11/1997	Raychaudhuri et al.	
		5666358	9/1997	Paratore et al.	
		4495619	1/1985	Acampora	
		5444698	8/1995	Kito	
		5675573	10/1997	Karol et al.	
		5828695	10/1998	Webb	
		5909469	6/1999	Frodigh et al.	

PTO/SB08A and 08B (08-03)
Approved for use through 70731/2006. 0.0810 685-033
Palent and Trademark Office: U.S. DEPARTIMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known

Substitute for form 1449A/PTO					,
INFORMATION DISCLOSURE				Application Number	10/053,179
				Filing Date	January 15. 2002
STA	STATEMENT BY APPLICANT		First Named Inventor	Kenneth L. Stanwood	
	(Use as many sheets as necessary)			Group Art Unit	2477
				Examiner Name	Gregory B. Sefcheck
Sheet	2	of	5	Attorney Docket Number	112174-010UTL

60	11786	1/2000	Dent	
60	94421	7/2000	Scott	
61	67031	12/2000	Olofsson et al.	
62	33231	5/2001	Felix et al.	
63	159934	3/2002	Yoshida	
64	63107	10/2002	Lindoff et al.	
65	49759	4/2003	Arviv et al.	
64	00755	6/2002	Harris et al.	
64	52964	9/2002	Yoshida	
70	50407	5/2006	Frazer et al.	
39	49404	4/1976	Fletcher et al.	
55	11082	4/1996	How et al.	
55	17503	5/1996	Hess	
57	68254	6/1998	Papadopoulos et al.	
58	59619	1/1999	Wu et al.	
58	90055	3/1999	Chu et al.	
60	06069	12/1999	Langston	
60	26133	2/2000	Sokoler	
60	38455	3/2000	Gardner et al.	
67	60599	7/2004	Uhlik	
	31030	8/2005	Dogan	
59	18171	6/1999	Funke et al.	
67	71660	8/2004	Bourlas et al.	
72	60405	8/2007	Kim et al.	
64	96142	12/2002	linuma	
68	62622	3/2005	Jorgensen	
67	41614	5/2004	Porter et al.	
70	68639	6/2006	Varma et al.	
71	97022	3/2007	Stanwood et al.	
73	21569	1/2008	Takagi et al.	
66	31130	10/2003	Roy et al.	
	61935	6/2006	Roy et al.	

Patent and Transition Act of 1995, no persons are required to respond to a collection of information unless to collection Act of 1995, no persons are required to respond to a collection of information unless to confiants a write Continua to write Continua to write Continua to a collection of information unless are confiants a write Continua to write Co

Substitute for form 1449A/PTO	Complete if Known	
	Application Number	10/053,179
INFORMATION DISCLOSURE	Filing Date	January 15. 2002
STATEMENT BY APPLICANT	First Named Inventor	Kenneth L. Stanwood
(Use as many sheets as necessary)	Group Art Unit	2477
	Examiner Name	Gregory B. Sefcheck
Sheet 3 of 5	Attorney Docket Number	112174-010UTL

		20030169722	9/2003	Petrus et al.		
		20050100120	5/2005	Barton et al.		
		20040132459	7/2004	Varma et al.		
		FORE	IGN PATENT DO	CUMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ - Number ⁴ -Kind Code ⁵ (F	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Column, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁰
		EP 0622924 WO 9810568	11/1994 3/1998	International Business Machines Corporation Trompower et al.		
		EP 0507384	3/1992	Philips Electronics UK Limited et al.		
		EP 0845916	6/1998	Telefonaktiebolaget LM Ericsson		
		EP 0891060 EP 0944200	1/1999	Matsushita Electric Industrial Co., Ltd. Fuiitsu Limited		
		WO9222162	12/1992	British Telecommunications Public Limited Company		
		WO 9713388	4/1997	Telefonaktiebolaget LM Ericsson		
		EP 0720405 WO 9938343	7/1996	AT&T Corp. Telefonaktiebolaget LM Ericsson		
		WO 9939532	8/1999	Ericsson, Inc.		E
		WO 0001188	1/2000	Telefonaktiebolaget LM Ericsson		

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
		DUTTON et al., "Asynchronous Transfer Mode (ATM) Technical Overview," 2.sup.nd Edition, Prentice Hall Oct. 1995, Chap. 3, pp. 21-25	
		International Search Report for PCT/US00/29687 dated March 28, 2001, 3 pages	
		International Preliminary Examination Report for PCT/US00/29687 dated December 18, 2001, 8 pages	
		Office Action issued in 09/430,379 on 1/30/03, 10 pages	
		Notice of Allowance for 09/430,379 issued on 7/28/03, 3 pages	
		SAMPEI et al., "Adaptive Modulation/TDMA Scheme for Personal Multi-Media Communication System," Proceedings of the Global Telecommunications	

PTO/SB08A and 08B (08-03)
Approved for use through 07/31/2006. OAB) 0805-103
Patent and Trademark Office: U.S. DEPARTIMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for	Substitute for form 1449A/PTO			Complete if Known		
INFORMATION DISCLOSURE				Application Number	10/053,179	
				Filing Date	January 15. 2002	
STATEMENT BY APPLICANT		First Named Inventor	Kenneth L. Stanwood			
(Use as many sheets as necessary)			necessary)	Group Art Unit	2477	
		Examiner Name	Gregory B. Sefcheck			
Sheet	4	of	5	Attorney Docket Number	112174-010UTL	

Conference, U.S., New York, IEEE, Nov. 28, 1994, pp. 989-993	
UE et al., "Symbol Rate and Modulation Level Controlled Adaptive Modulation/TDMA/TDD for Personal Communication Systems, Proceedings of the Vehicular Technology Conference, U.S.," New York, IEEE, vol. Conf. 45, Jul. 25, 1995, pp. 306-310	
TORRANCE et al., "Upper Bound Performance of Adaptive Modulation in a Slow Rayleigh Fading Channel," IEEE Electronics Letters vol. 32, p.718-719, Apr. 1996	
PONS et al., "Bit Error Rate Characterisation and Modelling for GSM," IEEE 1998, pp. 3722-3727	
BENDER et al., "CDMA/HDR: A Bandwidth Efficient High-Speed Wireless Data Service for Nomadic Users," Communications Magazine, IEEE, vol. 38, No. 7, Jul. 2000, pp. 70-77	
JAIN, P., "On the Impact of Channel and Channel Quality Estimation on Adaptive Modulation," Dec. 2002, 92 pages	
ANDERSEN, et al., "Prediction of Future Fading Based on Past Measurements, Vehicular Technology Conference," VTC 99, vol. 1, p. 151-155	
NARLIKAR et al., "Designing Multihop Wireless Backhand Networks with Delay Guarantees," Bell labs, 2005 12 pages	
U.S. District Court, Northern District of California, "Amended Complaint for Declaratory Judgment Demand for Jury Trial" filed Sept. 30, 2008 in Case No. 5:08-cv-4555, 20 pages	
LIN et al., "Error Control Coding, Fundamentals and Applications", Prentice-Hall Computer Applications in Electrical Engineering Series., 1993, pp. 315-349	
LEE, L.H. Charles, "Convolutional Coding, Fundamentals and Applications", Artech House, Inc., 1997, p. 11-51	
REDL, et al., "An Introduction to GSM", Artech House, Inc., 1995, pp.84-85 and 95	
SHANNON, C.E., "A Mathematical Theory of Communication", Bell System Technical Journal, pp. 379-423 (Part 1), 623-656 (Part 2), Jul. 1948	
ULM et al., "Data-Over-Cable Interface Specifications, Radio Frequency Interface Specification", Hewlett Packard Interim Specification, Doc. Control No. SP-RFII01-970321, published Mar. 21, 1997 by MCNS Holdings, L.P. Section 6, pp. 43-85	
WOLF et al., "On the Weight Distribution of Linear Block Codes Formed From Convolutional Codes", IEEE, IEEE Transactions on Communications, vol. 44:Sept.	

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO	Complete if Known	
	Application Number	10/053,179
INFORMATION DISCLOSURE	Filing Date	January 15. 2002
STATEMENT BY APPLICANT	First Named Inventor	Kenneth L. Stanwood
(Use as many sheets as necessary)	Group Art Unit	2477
	Examiner Name	Gregory B. Sefcheck
Sheet 5 of 5	Attorney Docket Number	112174-010UTL

	9, 1996, 4 pages	
	PAPADOPOULOS et al., "Reduction of Mixed Co-channel Interference in	
I	Microcellular STDD Systems", Vehicular Technology Conference, 1995 IEEE	
I	45.sup.th, vol. 2, pp.759-763	
	SATER et al., "Media Access Control Layer Proposal for the 802.16.1 Air Interface	
I	Specification", IEEE 802.16 Broadband Wireless Access Working Group, 'Online!	
1	Jul. 7, 2000, XP002210334 retrieved from the Internet:	
I	<url:http: 802161mc-00.sub.1321rl.pdf="" contrib="" mac="" tgl="" wirelessman.org=""></url:http:>	
I	retrieved Aug. 20, 2002, pp. 69-80	
	Cable Television Laboratories, Inc., "Data-Over-Cable Service Interface	
1	Specifications Radio Frequency Interface Specification", SP-RFIv1.1-101-990311,	
1	1999-2005, 320 pages	
	International Search Report for PCT/US01/43582 dated August 30, 2002, 3 pages	
	International Search Report for PCT/US00/20577 dated April 5, 2001, 5 pages	
Examiner	Date Considered	
Signature	Date Considered	

Signature "EXAMINEE", initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

*Unique clatation designation number. *See attached Kinds of U.S. Patint Documents. *Einer Office that issued the document, by the bro-lefter code (Winds Standard ST.3). *For Japanese patient documents, be includation of the year of the region of the Emport own rust precede the serial number of the patent documents. Manual Propriets are propriets symbols as indicated on the document under WiPO Standard ST. 16 if possible. *Applicant is to place a check mark here if English language Translation is attached.

This collection or information is required by 37 CFR 198. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 38 USR. of 122 and 37 CFR 14. This collection is estimated to Pubra to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the inclividual case. Any comments on the amount of time you require to complete this form androis suggestions for equicing this brutent, should be sent to the Chief Information (Fr. US. Patent and Trademark Office, U.S. Capatrament of Commerce, P.O. Box 1450, Alexandria, VA 2231-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Dos 1450, Alexandria, VA 2231-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Dos 1450, Alexandria, VA 2231-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Dos 1450, Alexandria, VA 2231-1450 and Patents.